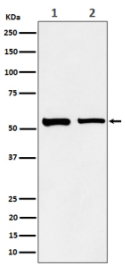
SNX4 Antibody / Sorting nexin 4 [clone 30S54] (FY12516)

Catalog No.	Formulation	Size
FY12516	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA	100 ul

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	2-3 weeks
Species Reactivity	Human, Mouse, Rat
Format	Liquid
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	30S54
Purity	Affinity-chromatography
Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
UniProt	O95219
Applications	Western blot: 1:500-1:2000 Immunoprecipitation: 1:50
Limitations	This SNX4 antibody is available for research use only.



Western blot analysis of SNX4 expression in (1) human A431 cell lysate; (2) mouse RAW264.7 cell lysate. Predicted molecular weight ~52 kDa.

Description

SNX4 antibody detects sorting nexin 4, a member of the sorting nexin family encoded by the SNX4 gene. Sorting nexins are characterized by the presence of a phox homology domain that binds phosphoinositides, enabling association with

endosomal membranes. SNX4 is primarily involved in endosomal trafficking, cargo sorting, and membrane remodeling. By directing proteins to recycling or degradative pathways, SNX4 maintains cellular homeostasis and regulates receptor signaling.

SNX4 antibody is widely applied in studies of membrane trafficking, endocytosis, and signal transduction. Sorting nexin 4 is part of the retromer independent recycling pathway and contributes to the trafficking of proteins such as the transferrin receptor. Disruption of SNX4 function impairs endosomal sorting and alters nutrient uptake, receptor turnover, and intracellular signaling dynamics. By detecting SNX4, researchers can explore how sorting nexins control endosomal recycling and cell surface composition.

In western blot assays, SNX4 antibody detects protein bands of the expected size in cell and tissue extracts. Immunohistochemistry highlights expression in epithelial and neuronal tissues, while immunofluorescence maps SNX4 distribution on endosomal membranes. These methods support detailed analysis of endosomal dynamics.

SNX4 has been implicated in neurodegenerative disease and cancer. Altered expression affects autophagy, mitochondrial function, and neuronal survival. In oncology, abnormal SNX4 activity influences growth factor receptor trafficking and signaling, potentially affecting tumor progression. By applying SNX4 antibody, scientists can investigate how sorting nexin mediated trafficking pathways contribute to both normal physiology and disease.

SNX4 antibody from NSJ Bioreagents provides dependable specificity for exploring membrane trafficking and signaling. Its versatility across assays makes it an essential reagent for cell biology and disease related research.

Application Notes

Optimal dilution of the SNX4 antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human SNX4 was used as the immunogen for the SNX4 antibody.

Storage

Store the SNX4 antibody at -20oC.

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